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Kitch et al.

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(54) **VIDEO LESSON BUILDER SYSTEM AND METHOD**

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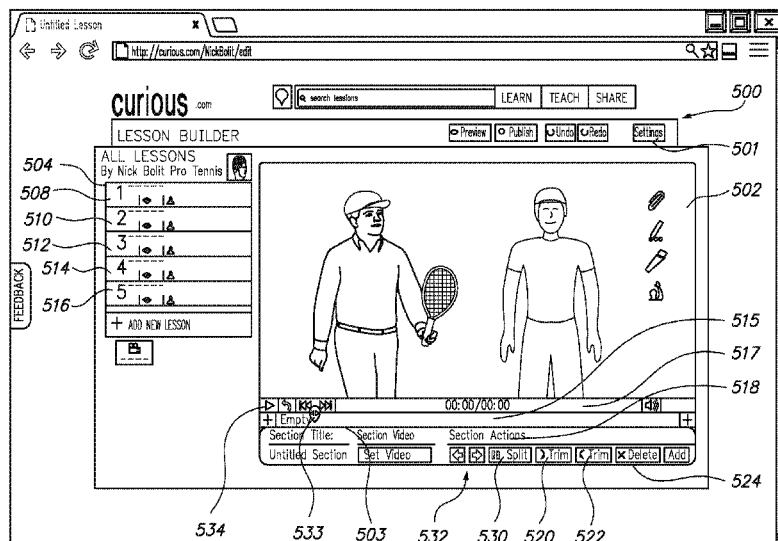
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ABSTRACT

An online video lesson builder system and method. The remotely-located system generates a single interface having a lesson index display area and a video display area for displaying data presentation (e.g., video) content associated with a lesson. A section control menu provides edit and assembly control buttons for editing and assembling the lesson and for segmenting the lesson into a plurality of time sections, each time section being associated with a key concept of the lesson.

30 Claims, 15 Drawing Sheets



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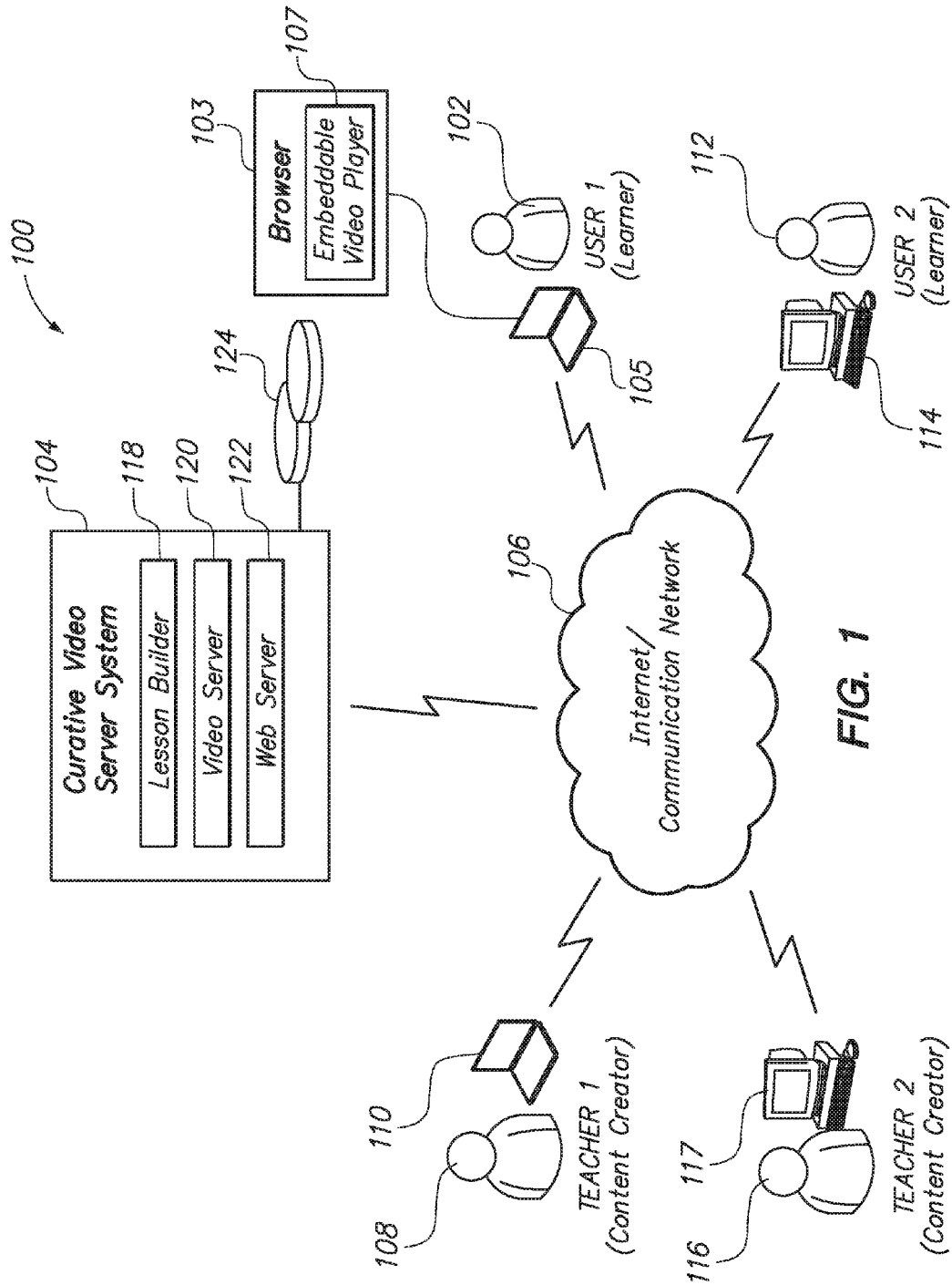
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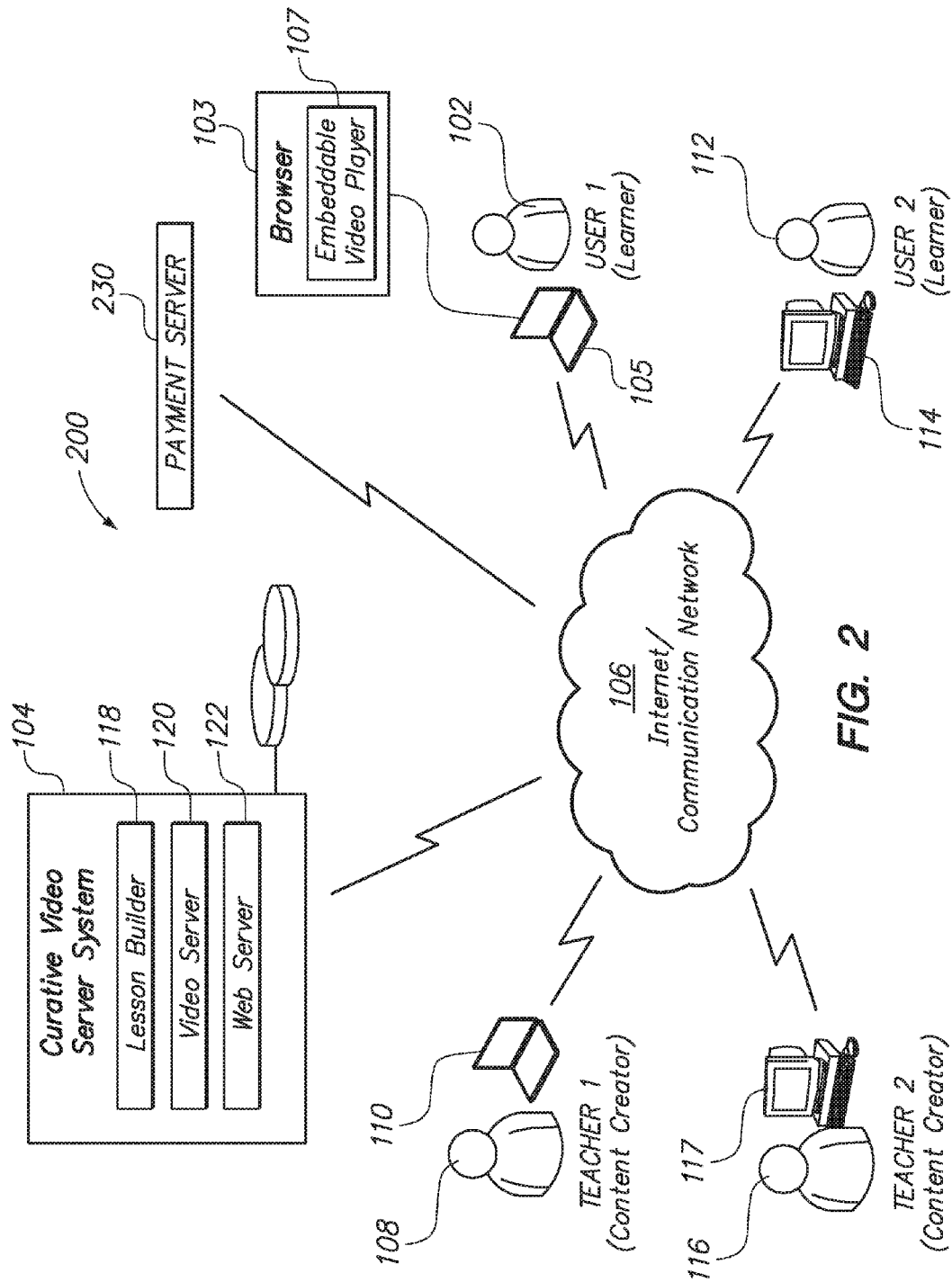
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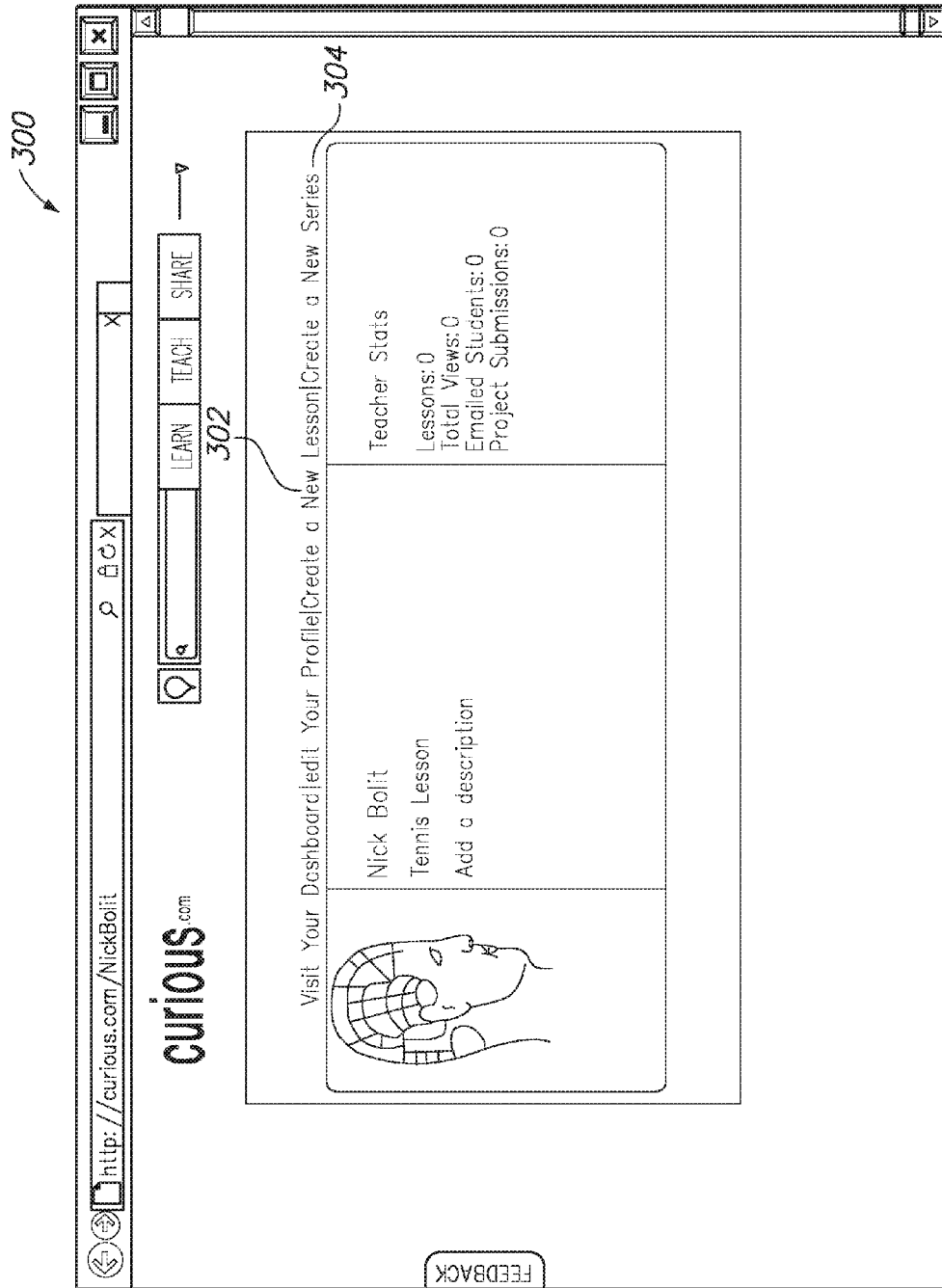


FIG. 3

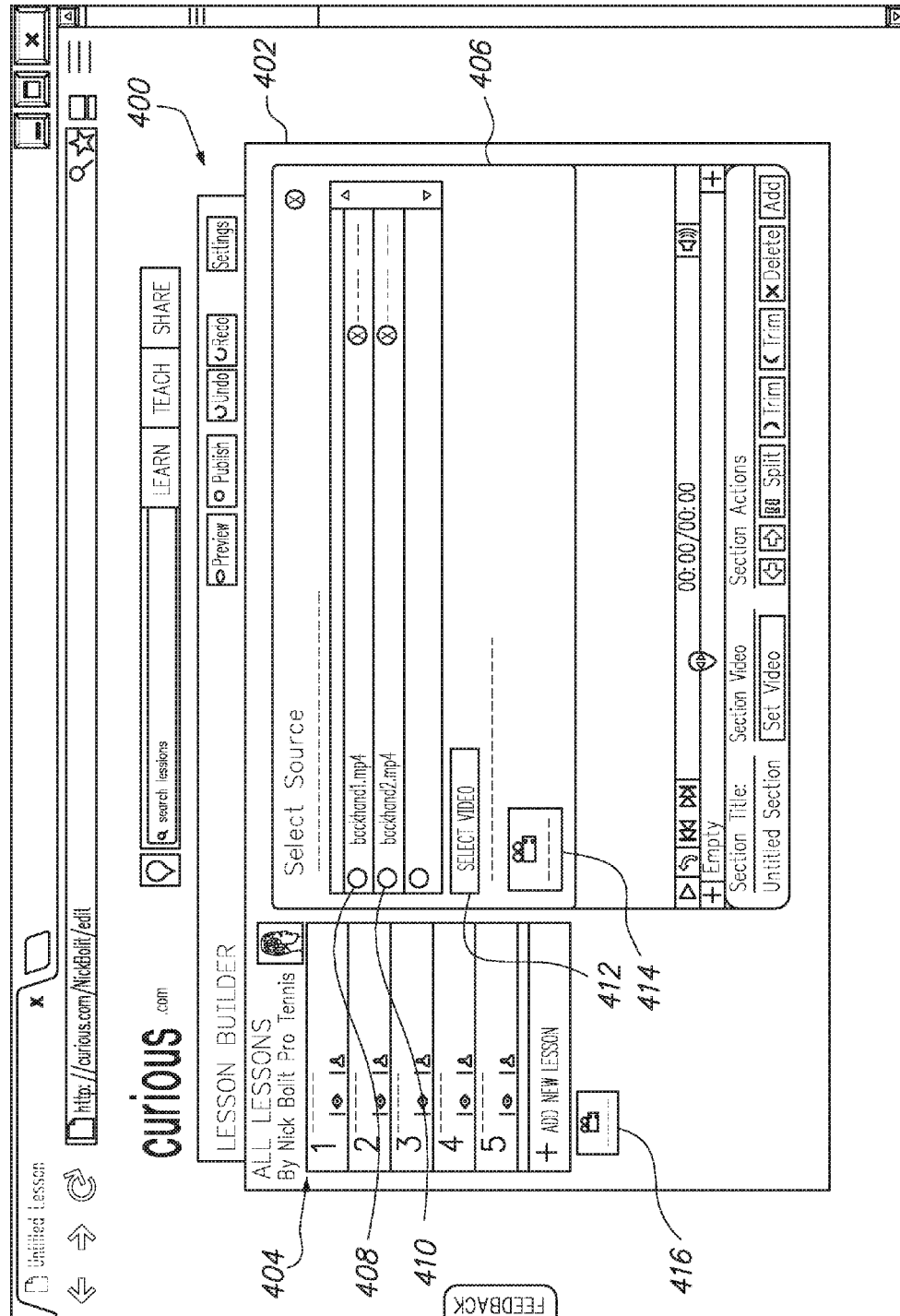
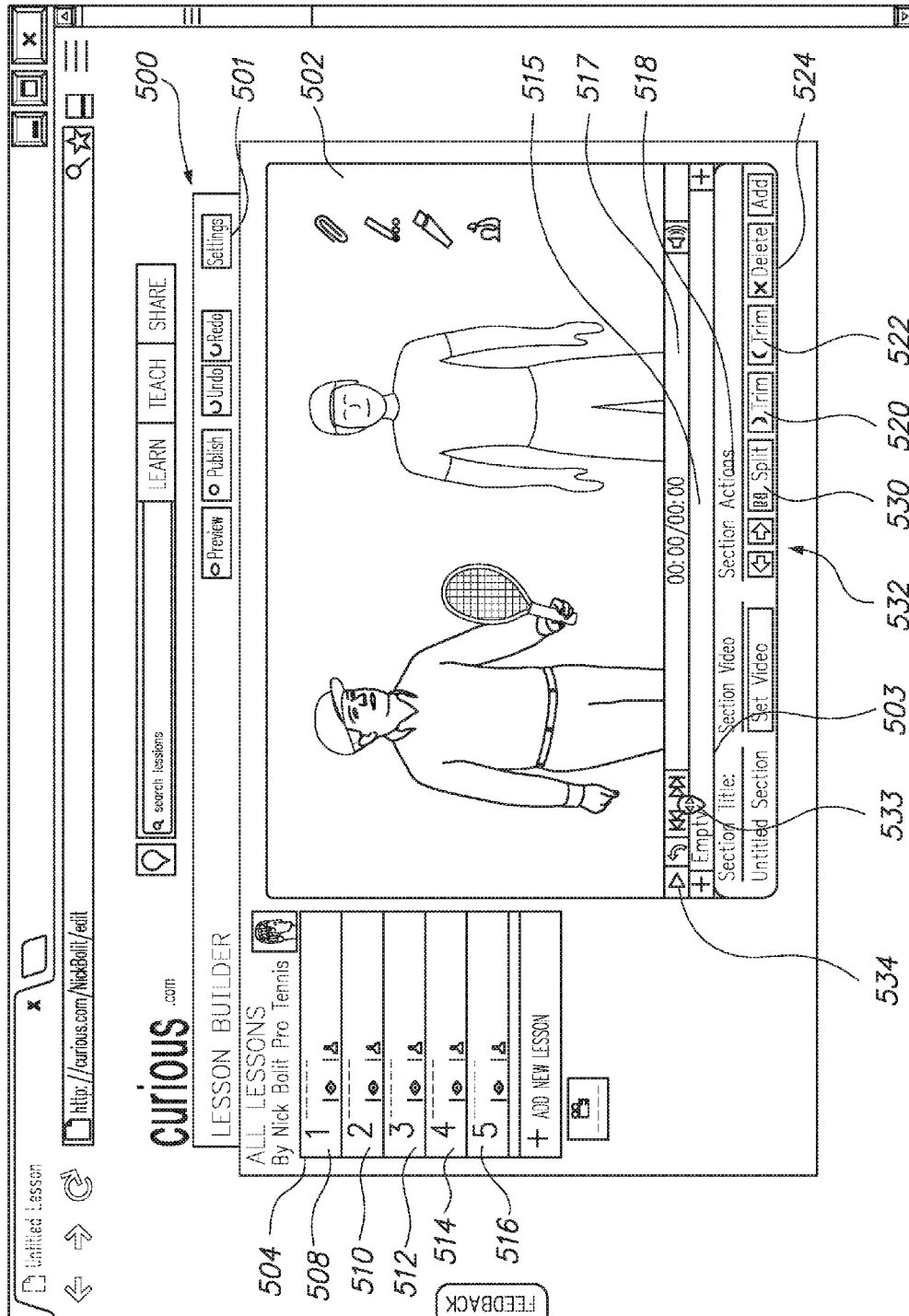
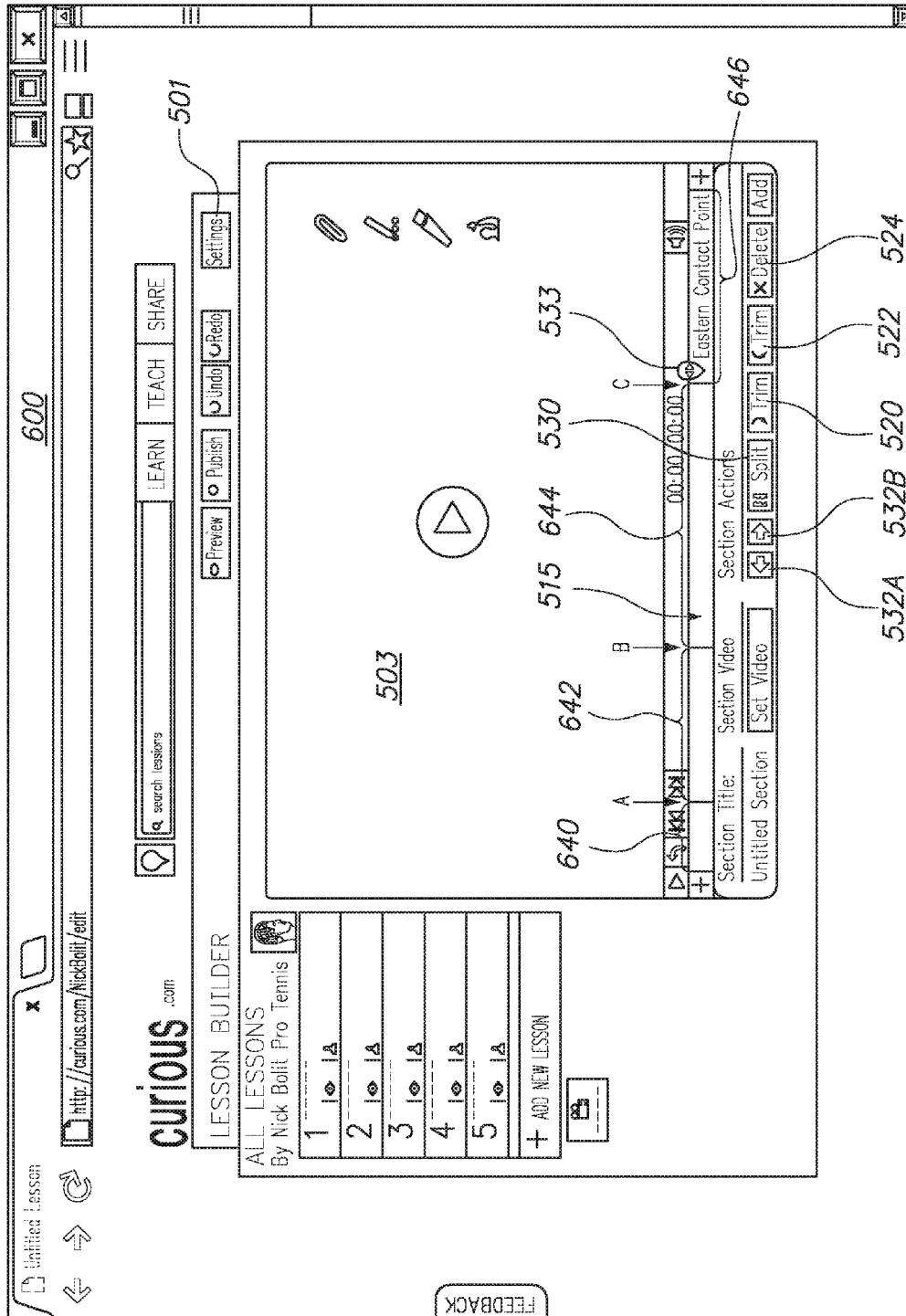


FIG. 4





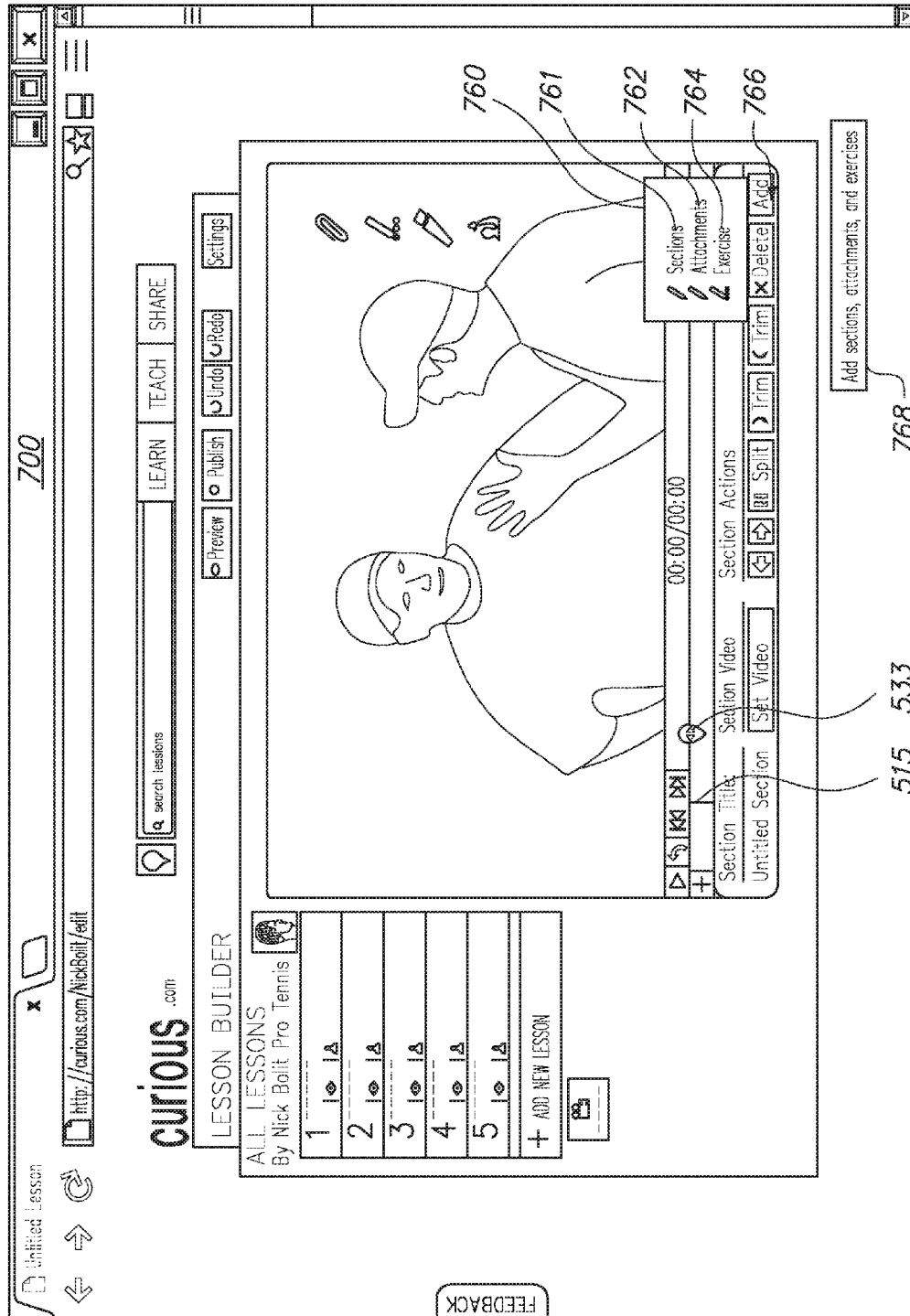
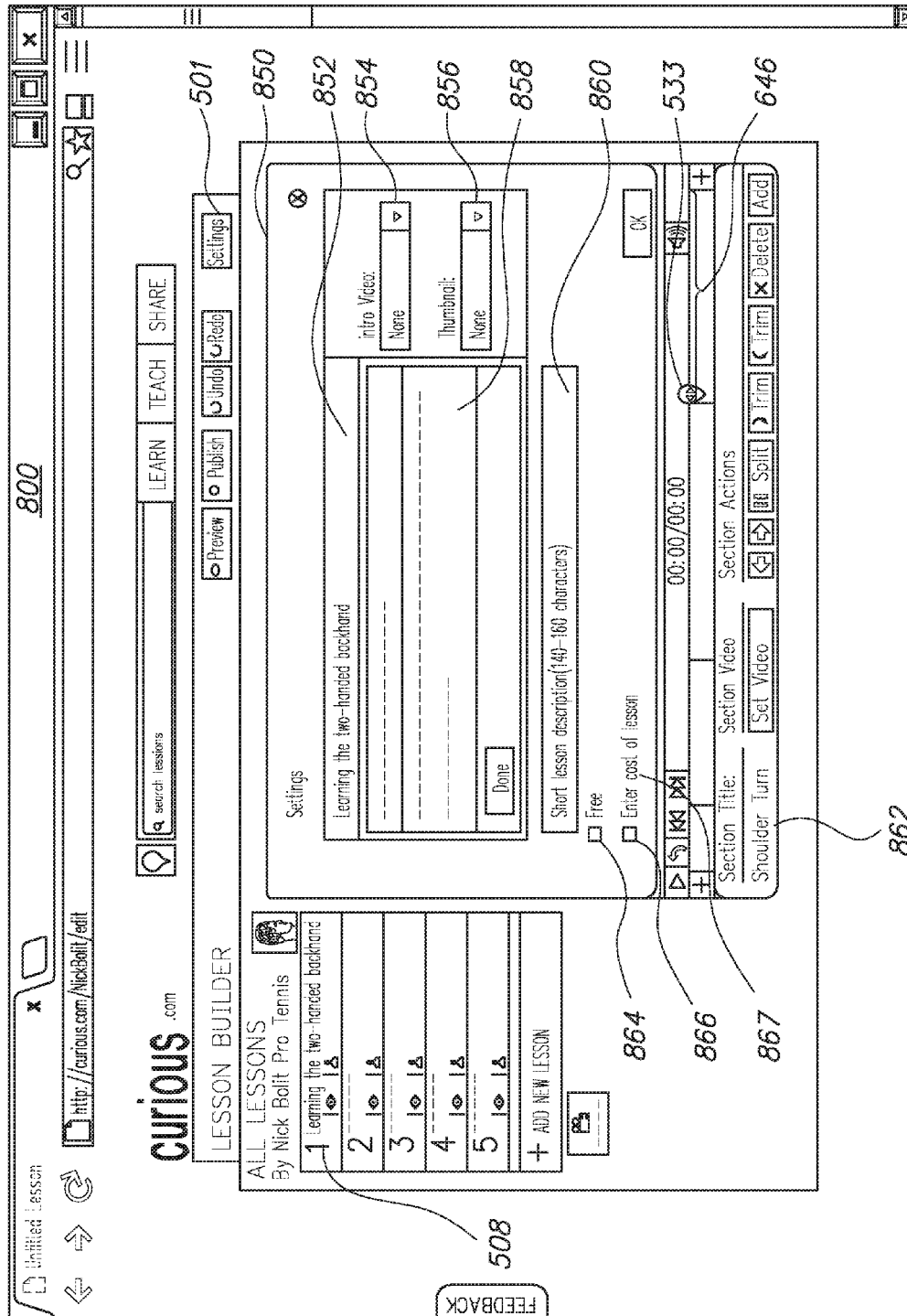


FIG. 7



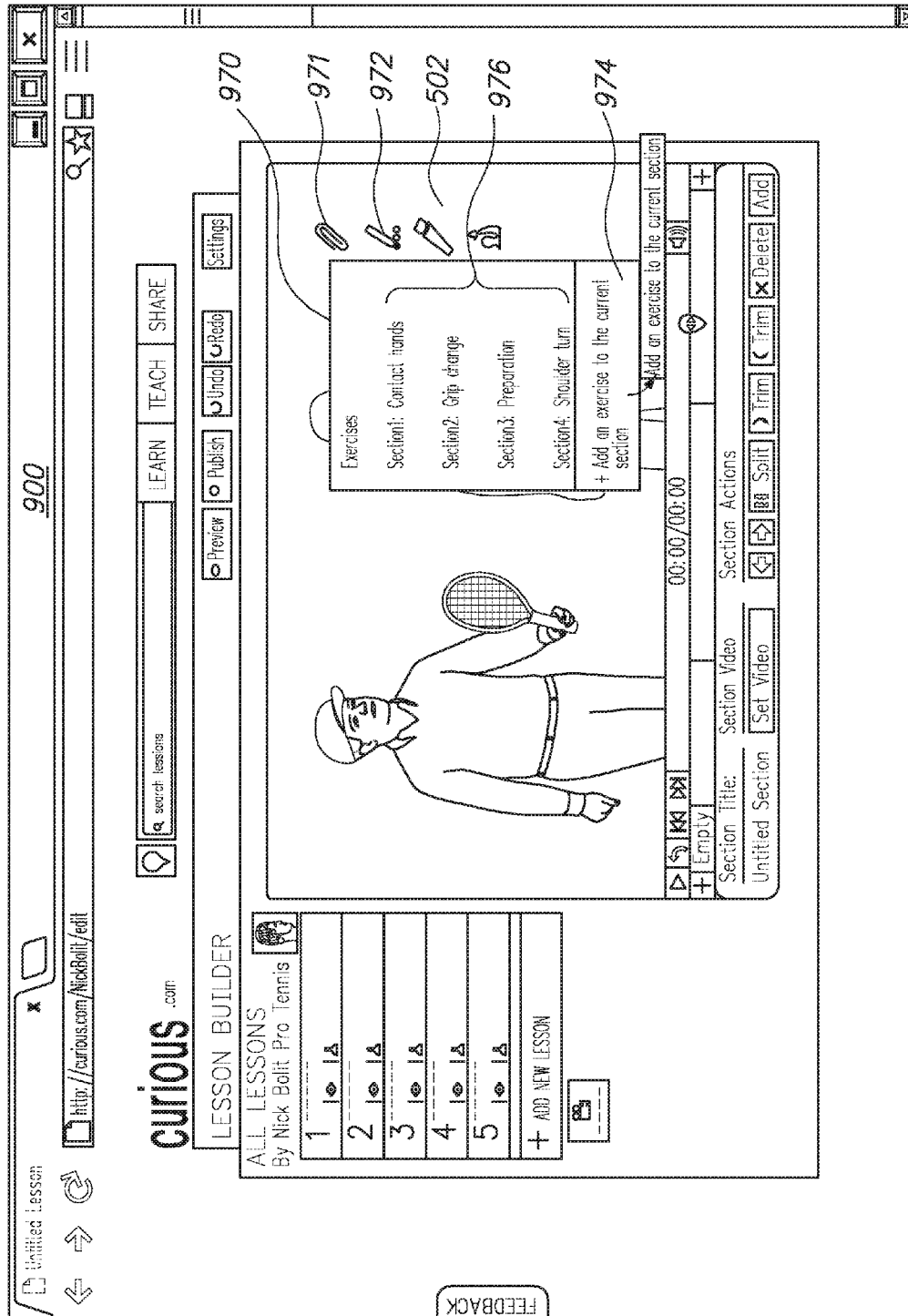


FIG. 9

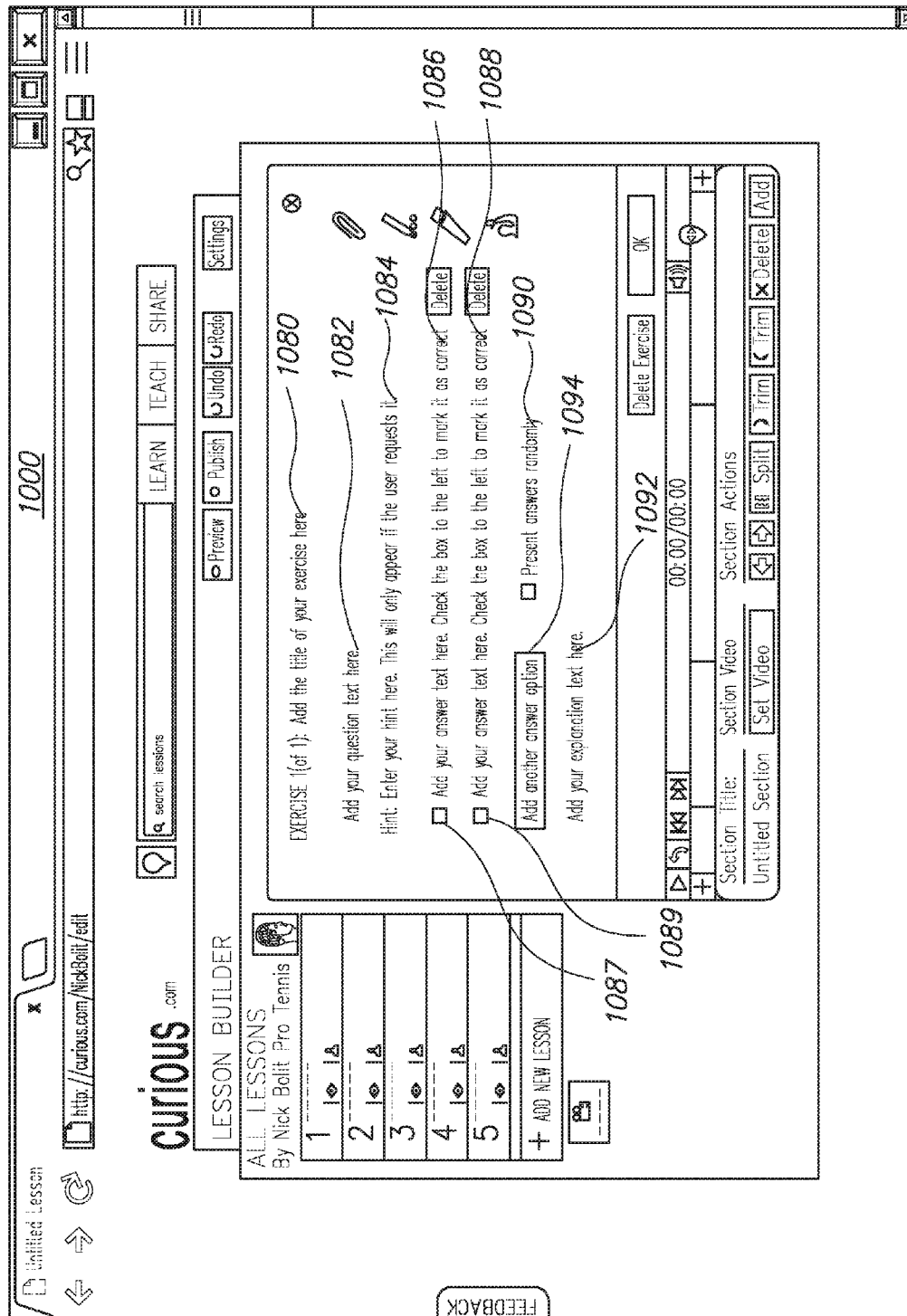


FIG. 10

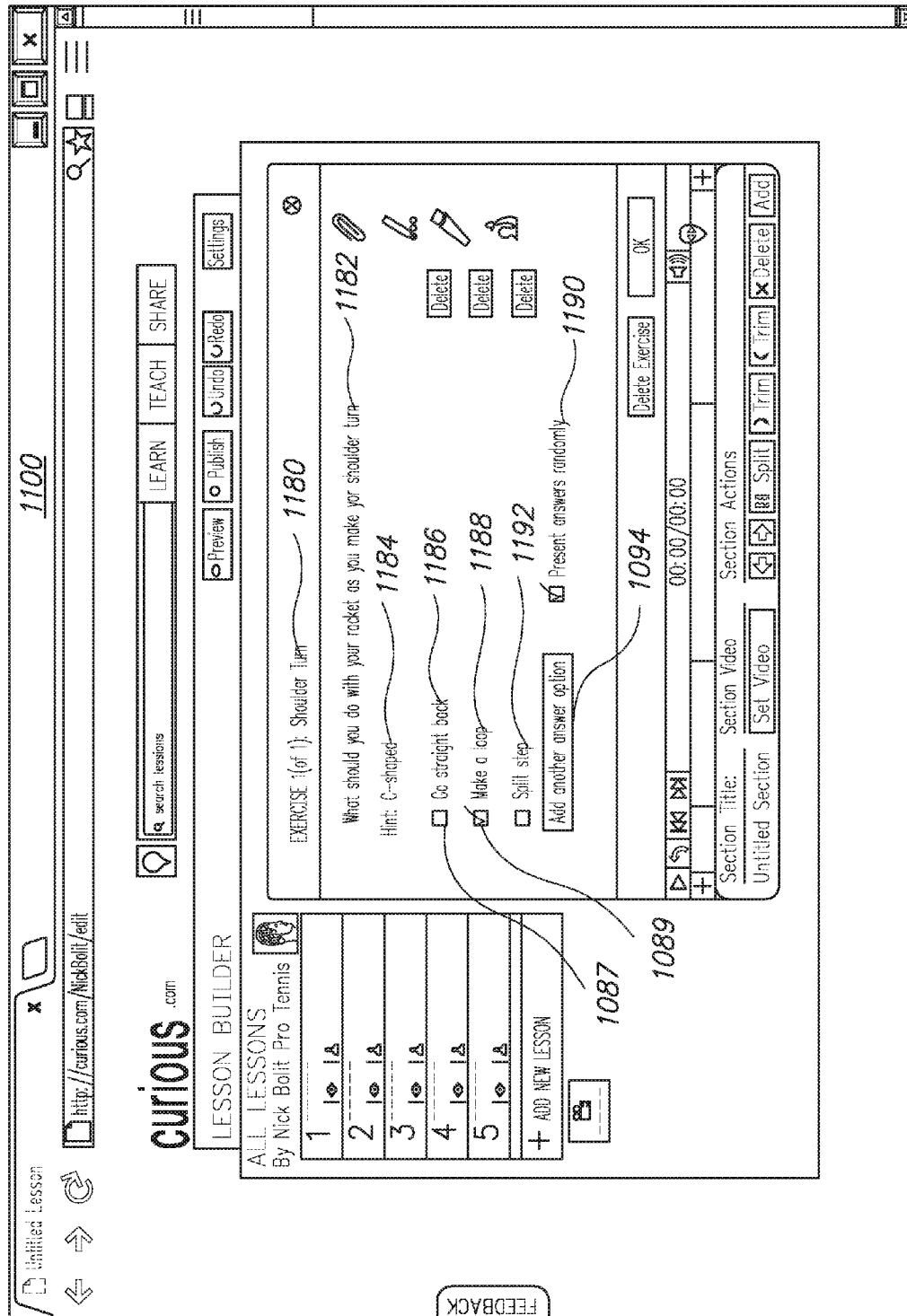
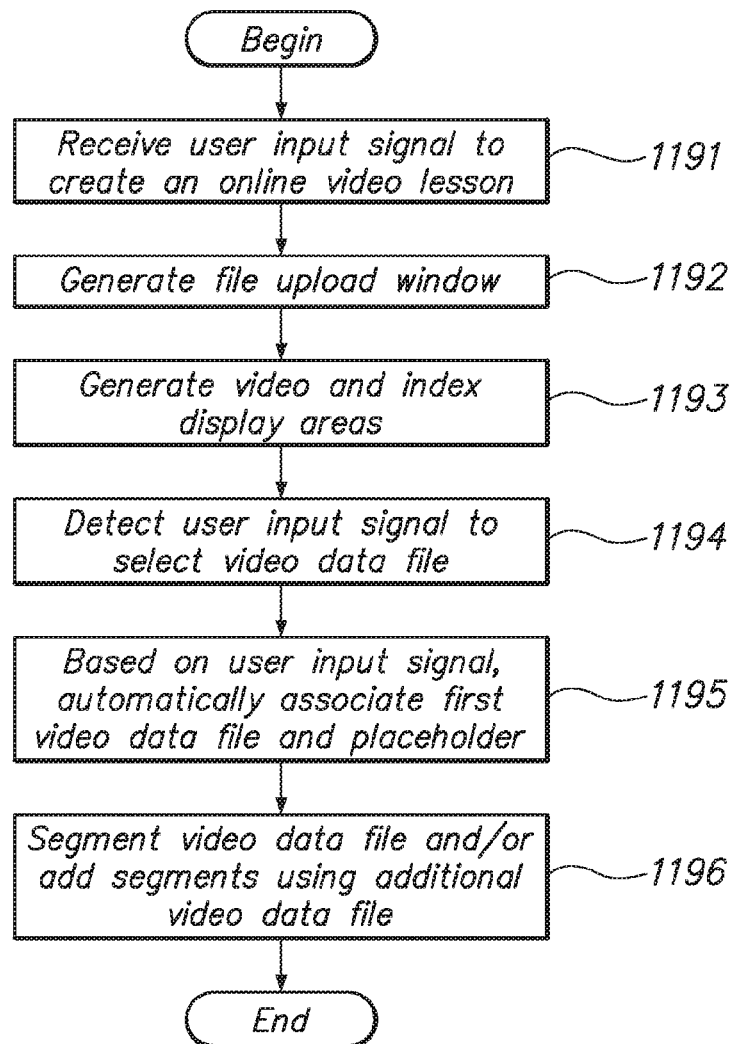


FIG. 11A

**FIG. 11B**

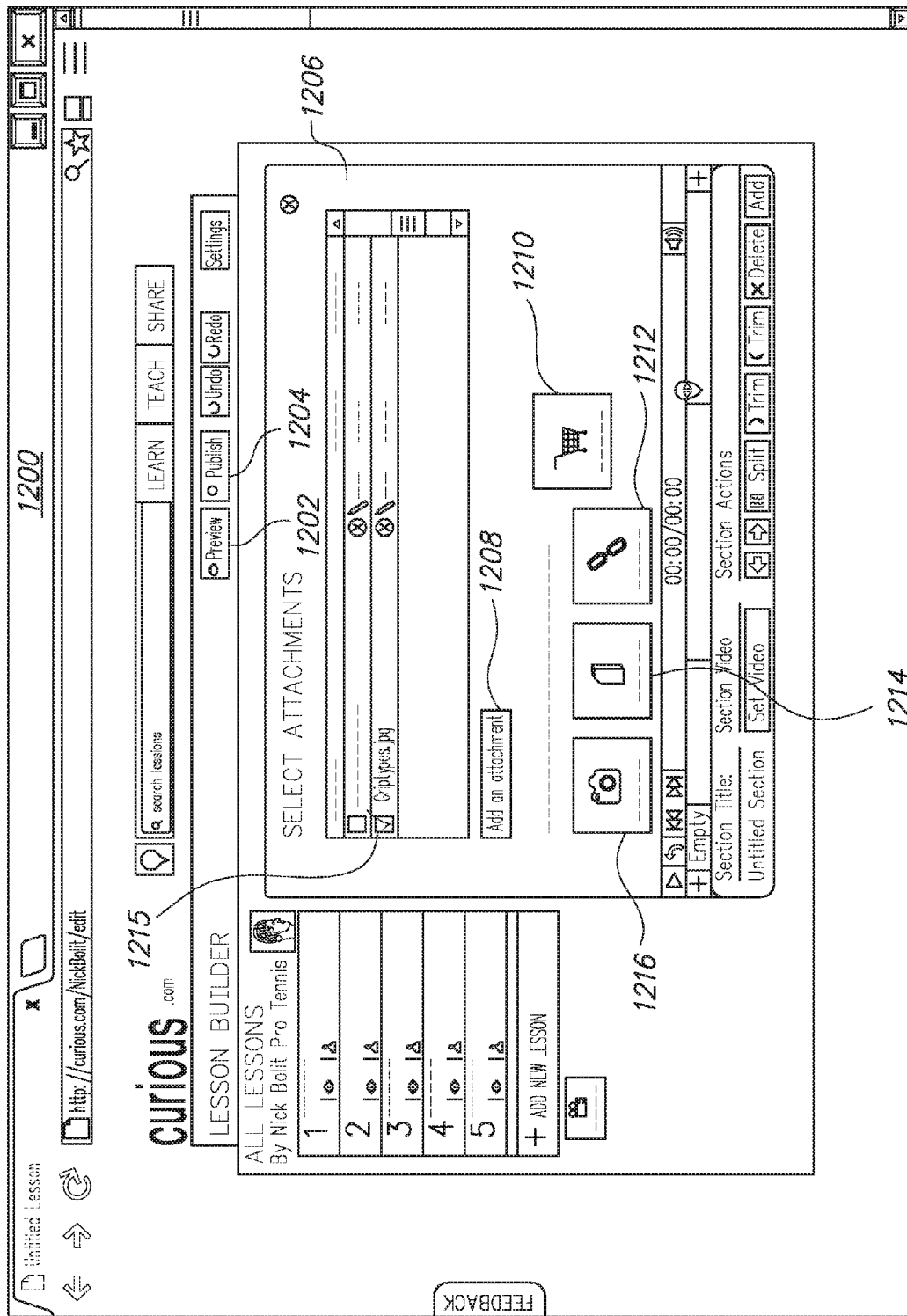
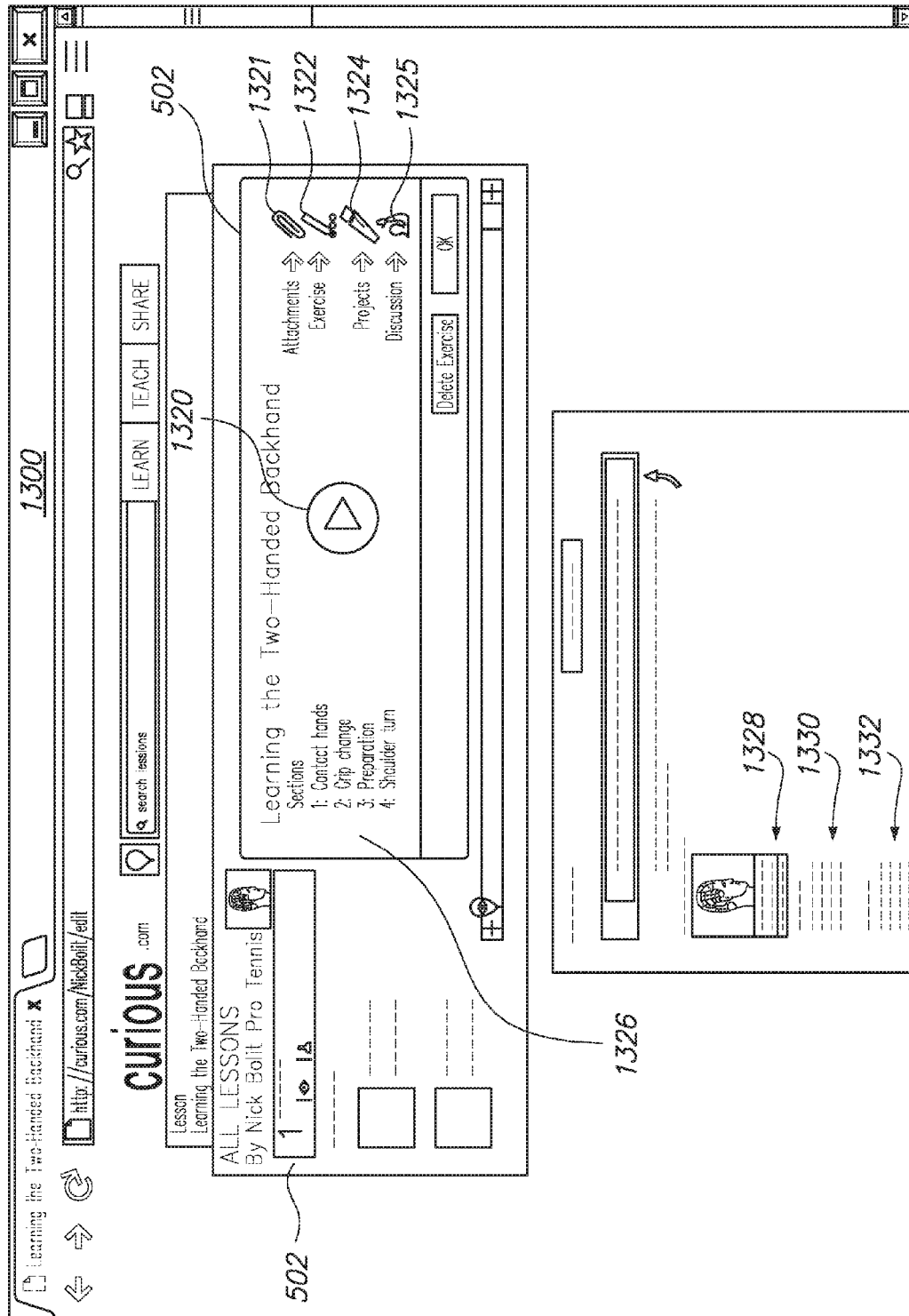


FIG. 12



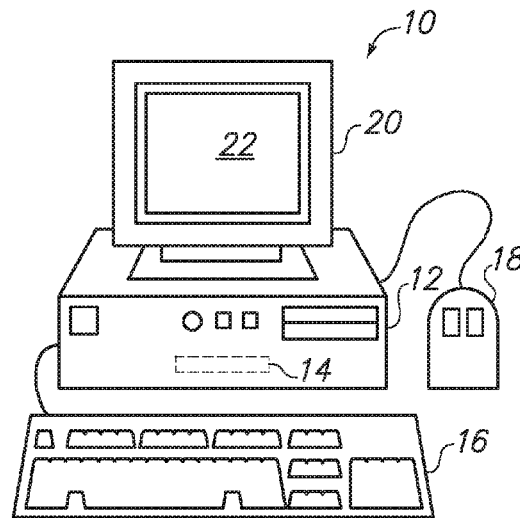


FIG. 14A

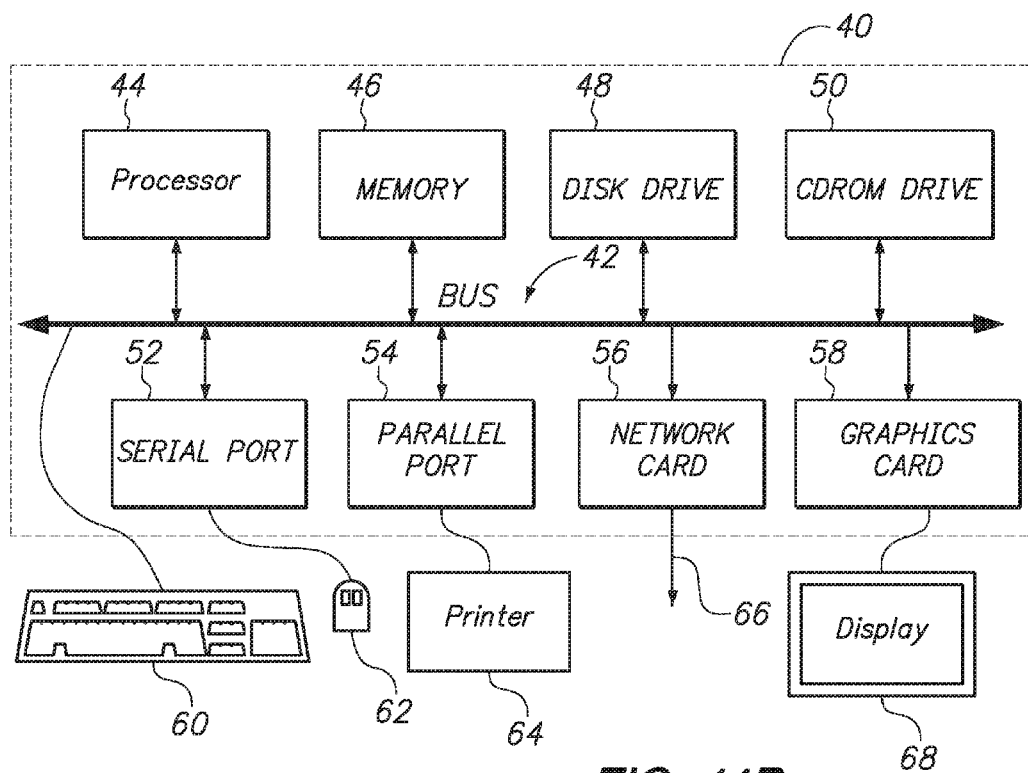


FIG. 14B

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VIDEO LESSON BUILDER SYSTEM AND METHOD

COMPUTER PROGRAM LISTING APPENDIX

A computer program listing appendix is provided on CD-R with this application. The CD-R includes the file appendix.txt, size 281KB, created Mar. 10, 2016. The material on the CD-R is hereby incorporated by reference as if set forth in full in this application for all purposes. A portion of the disclosure recited in this application contains material which is subject to copyright protection. Specifically, the computer program listing appendix and possibly other portions of the application may recite or contain source code, data or other functional text. The copyright owner has no objection to the facsimile reproduction of the functional text; otherwise all copyright rights are reserved.

BACKGROUND OF THE INVENTION

The present invention relates generally to computer information and communication systems and methods and more specifically to computer information and communication systems and methods for building video content for learning.

One fundamental human trait is our desire to continue learning. We might want to learn for personal reasons, for reasons related to work or for other reasons. As an example, a user might want to learn how to play the guitar. As another example, a user might wish to improve his or her understanding of a particular technology.

The Internet has made it particularly convenient to learn and teach by providing flexibility. Thus, many entities now use video content to offer online courses to reach a widespread audience via the web. Such video content is usually created using video capture devices such as a video camera, camera phone or the like.

Often, content creators are limited by the capabilities of the video capture device and must usually present or publish the video content "as is" for viewing on a generic website or the like. After publication, the content creator wishing to modify or update original video content, must usually create a new or modified content, which is then again uploaded for publishing. Thus, conventional systems for creating or modifying such online courses and corresponding video content can be time-consuming, arduous and can involve a multiplicity of steps.

It is within the aforementioned context that a need for the present invention arises, and there is a need to address one or more of the foregoing disadvantages of conventional systems and methods, and the present invention meets this need.

BRIEF SUMMARY OF THE INVENTION

Various aspects of a video lesson builder system and method can be found in exemplary embodiments of the present invention.

In a first aspect, the lesson builder system can create online video lessons, series, courses and the like for publication to online users. By employing a single, yet comprehensive interface, the lesson builder system of the present invention can quickly assemble, edit and publish online video lessons unlike conventional systems and methods.

Specifically, a remotely-located instructor/content creator wishing to build an online video lesson begins by initiating the lesson builder system and then uploading one or more video data files for the online video lesson. The video data

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files, which might be MP4 or other compatible container formats, are associated with the video lesson for viewing by an end user.

More specifically, the lesson builder system initially creates a first lesson and then associates this first lesson with the received video data file for display in the video display area. In one exemplary embodiment, the first lesson might be an empty vessel with instructions to play the video data file.

Among other features, the lesson builder system includes a video display area approximately centered on a display screen for viewing the video lesson. The lesson builder system also includes a lesson list display area and a section control menu proximate to the video display area.

Contemporaneously and in real time, as the video lesson is played in the video display area, the section control menu is used to manipulate/edit the video lesson. The section control menu might include a split control button that segments a lesson into two or more time sections. The section control menu may also include an add control button that uses additional video data files to add additional time sections to an existing lesson.

As the video lesson is played, the lesson builder system also displays a timeline having a playhead. Here, the width of the timeline remains fixed irrespective of whether a time section is added or deleted from the video lesson. For example, when a new time section is added, the representation of the new and existing time sections is time scaled in proportion to the duration of the time sections to fit within the fixed-width timeline.

As the video lesson is further played in real time, the section control menu is employed to edit/manipulate contiguous and noncontiguous elements of the video data file into a plurality of contiguous time sections, each time section associated with a key concept of the online video lesson. All of the time sections can then be played in the video display area in a linear and smooth manner.

Thus, unlike conventional systems for creating or modifying online courses that are time-consuming, arduous and can involve a multiplicity of steps, the lesson builder system of the present invention provides a single interface that is simple, efficient and can be utilized with minimal effort to accomplish creation of online video lessons and courses.

A further understanding of the nature and advantages of the present invention herein may be realized by reference to the remaining portions of the specification and the attached drawings. Further features and advantages of the present invention, as well as the structure and operation of various embodiments of the present invention, are described in detail below with respect to the accompanying drawings. In the drawings, the same reference numbers indicate identical or functionally similar elements.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 illustrates a curative video communication system according to an exemplary embodiment of the present invention.

FIG. 2 illustrates a curative video communication system in accordance with an exemplary embodiment of the present invention.

FIG. 3 is a screenshot illustrating a teacher homepage of the video lesson builder according to an exemplary embodiment of the present invention.

FIG. 4 is a screenshot illustrating a lesson builder interface according to an exemplary embodiment of the present invention.

FIG. 5 is a screenshot illustrating a lesson builder interface according to an exemplary embodiment of the present invention.

FIG. 6 is a screenshot of a lesson builder interface showing a tennis lesson according to an exemplary embodiment of the present invention.

FIG. 7 is a screenshot of a lesson builder interface according to an exemplary embodiment of the present invention.

FIG. 8 is a screenshot of a lesson builder interface according to an exemplary embodiment of the present invention.

FIG. 9 is a screenshot of a lesson builder interface according to an exemplary embodiment of the present invention.

FIG. 10 is a screenshot of a lesson builder interface according to an exemplary embodiment of the present invention.

FIG. 11A is a screenshot of a lesson builder interface according to an exemplary embodiment of the present invention.

FIG. 11B is a flowchart illustrating a video building method according to an exemplary embodiment of the present invention.

FIG. 12 is a screenshot of a lesson builder interface according to an exemplary embodiment of the present invention.

FIG. 13 is a screenshot of a lesson builder interface according to an exemplary embodiment of the present invention.

FIG. 14A shows a typical computer such as would be operated by a user on the Internet.

FIG. 14B shows subsystems of the computer of FIG. 14A.

DETAILED DESCRIPTION OF THE INVENTION

Reference will now be made in detail to the embodiments of the invention, examples of which are illustrated in the accompanying drawings. While the invention will be described in conjunction with the preferred embodiments, it will be understood that they are not intended to limit the invention to these embodiments. On the contrary, the invention is intended to cover alternatives, modifications and equivalents, which may be included within the spirit and scope of the invention as defined by the appended claims. Furthermore, in the following detailed description of the present invention, numerous specific details are set forth to provide a thorough understanding of the present invention. However, it will be obvious to one of ordinary skill in the art that the present invention may be practiced without these specific details. In other instances, well-known methods, procedures, components, and circuits have not been described in detail as to not unnecessarily obscure aspects of the present invention.

An example of a website for implementing the system and method of the present invention is locatable at www.curious.com. The term "website" is generally applicable to a method for downloading/uploading and should not be construed as being limited to content downloaded/uploaded via Internet or HTTP (HyperText Transmission Protocol). Note also that server-performed functionality can also be performed on the client side as well.

FIG. 1 illustrates curative video communication system 100 according to an exemplary embodiment of the present invention.

In FIG. 1, curative video communication system 100 comprises, among other components, a learner or user 102 communicably coupled to curative video server system 104 via Internet/communication network 106. Internet/communication network 106 can be any network, wireless or wired, whether direct or indirect that allows data communication from one point to another.

As shown, curative video communication system 100 further comprises a content creator such as teacher 108 or 116 also communicably coupled to curative video server system 104 via Internet/communication network 106. Here, teacher 108 might be a skilled individual, an expert or any entity that is skilled in any subject matter and who wishes to use video content to teach that subject matter.

Teacher 108 produces such video content to impart knowledge about subject matter on which the teacher is skilled. For example, teacher 108 might produce video content on playing the guitar. As another example, teacher 108 might be an expert sourdough baker teaching the fine art of sourdough bread baking. Further yet, teacher 108 might be an expert pesto chef.

Once video content is produced, teacher 108 can then utilize client laptop 110 for uploading of the video content to curative video server system 104. As will be further discussed, curative video server system 104 can then be employed for curating the video unlike conventional online video systems in which the video content is simply deposited for online viewing by users like user 102.

Moreover, unlike complicated conventional systems, the video builder method of the present invention employs a simple, yet sophisticated interface for quickly editing, assembling and publishing online video lessons to a personal directory assigned to the content creator. A WYSIWYG (What You See is What You Get) interface is employed that renders an actual representation of the video without the need for preview. This interface further provides within a single interface all of the operational controls needed for segmenting, building, section settings, etc. to create the online video lesson with minimal effort.

User 102 might be an individual seeking to improve his or her understanding of a particular subject matter. Thus, user 102 can be a student, a homemaker, a worker, etc. Using client laptop 105, user 102 can access curative video server system 104 to retrieve video content for the desired subject matter. Similarly, in FIG. 1, another learner such as user 112 can use client desktop 114 to access curative video server system 104.

In FIG. 1, a content creator such as teacher 116 can also use client desktop 117 to upload video content to curative video server system 104, said video content being accessible to both user 102 and user 112. In this manner, the present invention provides a unique, distributed curative video teaching and learning system that matches teachers and learners not heretofore available or seen in conventional systems.

Content creators such as teacher 108 and teacher 116 can provide content and be matched with consumers such as user 102 and user 112. Video content is associated with specific subject matter so that users 102 and 112 need not spend invaluable amounts of time searching for video content that does not match their needs. As will be further described, an embodiment of the embeddable video player of the present invention displays video content that is time into sections so that users can quickly identify and proceed to relevant sections of a video lesson.

Referring now to FIG. 1, curative video server system 104 includes lesson builder 118, video server 120 and web server 122. Although shown separately as a server cluster, one skilled in the art will realize that the functionality of all of the servers can be provided by a single server.

Here, web server 122 serves up web pages through which media content can be accessed by users 102 and 112. Such video content might be accessible, for example, at www.curious.com. Video server 120 retrieves available video content from database 124 for streaming or downloading to users 102

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and **112**. One skilled in the art will realize that video server **120** may include additional functionality.

Lesson builder **118** curates video content received from teachers for distribution to users. In accordance with unique aspects of the present invention, lesson builder **118** can divide video content into a plurality of lessons, each lesson being segmented into time sections that are complete subsections or chapters related to a subtopic of the lesson. Other advantages of the present invention (e.g. embedded attachments, etc.) are further described below with reference to the following paragraphs.

After curation of content, lesson builder **118** might then generate one or more code instructions comprising embeddable video player **107** for downloading to client laptop **105**. User **102** can then employ embeddable video player **107** for viewing the video content. Note that the task of generating one or more instructions for embeddable video player **107** need not be performed by lesson builder **118**. Operation of curative video communication system **100** will now be described.

In use, content creator or teacher **108**, for example, may desire to create a lesson on a subject matter in which teacher **108** is skilled. For example, teacher **108** can create a lesson on playing the guitar, making sourdough bread, building a house, on philosophy, on particular humanities, Java coding, etc.

Teacher **108** begins by creating a video on playing the guitar, for example. Teacher **108** is not limited to a single lesson but can produce multiple or a plurality of lessons as part of a single course. Teacher **108** begins by using a recording device such as a video camera, a camera phone or other like to create the guitar video lesson.

The guitar video lesson is recorded or converted into a Web-readable format such as MPEG-4, etc. Upon completion, teacher **108** uses a web browser (not shown) on client laptop **110** to upload the guitar video lesson to curative video server system **104**. The guitar video lesson is then stored in database **124**. At this point, teacher **108** can then access the video content for curation.

By curating, it is meant that lesson builder **118** is used to add, delete, format, reformat, etc., in a manner that improves usability and functionality of the uploaded video content in accordance with the spirit and scope of the present invention. In one embodiment, teacher **108** uses lesson builder **118** to curate the uploaded video by, for example, segmenting the video lesson into time sections that identify separate sections of the video lesson. In other embodiments, the video lesson may also be curated by hanging attachments or exercises on the video frames and by providing overlay animation. Once curated, the guitar video lesson (or video clips) is cataloged and stored in database **124** for access by users.

User **102**, wishing to become more proficient at playing the guitar, begins by firing up browser **103** in client laptop **105** to send an HTTP request for the guitar video lesson. Preliminarily, user **102** would have to register and log into the curative video server system **104** website. Once logged in, user **102** can browse available video content and then locate the desired guitar video lesson after which the HTTP request is sent.

Browser **103** can typically interpret traditional HTML (Hypertext Markup Language), although any comparable markup language consistent with the spirit and scope of the present invention can be used. The HTTP request is sent to a website (not shown) hosted by web server **122** of curative video server system **104**.

In response, in one embodiment, web server **122** returns a guitar lesson web page (not shown) to browser **103**. In one embodiment, the guitar lesson web page is embedded with

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embeddable video player **107**. Embeddable video player **107** may include embedded scripts or applications that can play the guitar video lesson in conjunction with a player plug-in (not shown) residing on client laptop **105**. An example of such a player plug-in might be Shockwave Flash available from Adobe, Inc., of San Jose, Calif.

One skilled in the art will realize that the present invention is also applicable to other computing type devices that have browsers and the like. Thus, although not shown, client laptop **105** may be tablet, mobile communication device, etc. In that case, such a device would utilize some other video player such as that incorporated in HTML 5.

The embedded scripts might be JavaScript and/or ActionScript. One skilled in the art will recognize that other comparable code can be employed. The ActionScript code is executed by the browser plug-in to play one or more portions of the guitar video lesson. The embedded applications might comprise JavaScript code including data retrieval applications for retrieving text for populating a portion of the guitar lesson web page, the address of JPEG images, the name of video files, the format of individual video files, etc.

In one embodiment, the guitar lesson web page is displayed in a display window comprising two sections: a main display section for displaying the video itself and a secondary or menu window for displaying a plurality of lessons that comprise the guitar video course. The main display window includes a play button that, once selected, enables the user to continue to use embeddable video player **107** and the browser plug-in for playing the selected guitar video lesson.

One of ordinary skill in the art will realize that the guitar lesson need not be played in a display window comprising two sections. Thus, although not shown, the guitar lesson web page may be displayed in a single display window. Lessons might be selected from the single display window and played therein as well.

FIG. 2 illustrates curative video communication system **200** in accordance with an exemplary embodiment of the present invention.

In FIG. 2, curative video communication system **200** comprises payment server **230** in addition to components discussed with reference to FIG. 1. Although not shown, payment server **230** may itself be integrated with curative video server system **104**. Payment server **230** automatically debits user accounts to pay for access to video content in accordance with charges determined by content creators and/or curative video server system **104**.

In this manner, the present invention provides a novel and significant distribution channel that matches content creators and content users and automatically secures payments for content creators for videos consumed by content users. Lesson Builder **118** interface screenshots for building video lessons will now be discussed with reference to FIGS. 3-13 below.

FIG. 3 is a screenshot illustrating teacher homepage **300** of the video lesson builder according to an exemplary embodiment of the present invention.

In FIG. 3, content creators can employ teacher homepage **300** to initiate building of one or more video lessons to teach any subject matter in which the content creator has expertise. Once created, the video lessons can then be published for viewing by students.

As an example, a content creator such as teacher **108** (FIG. 1) may have significant tennis coaching experience and might wish to create a tennis lesson video to reach a widespread student audience via communication system **100**. Teacher **108** can utilize teacher homepage **300** to build this tennis lesson as further described with reference to the figures

below. As another example, teacher **116** (FIG. **1**) may be an experienced biology teacher; she can also utilize teacher homepage **300** to create one or more series of biology video lessons for user consumption.

Specifically, in FIG. **3**, teacher **108** can select “Create a New Lesson” link **302** to create a new video lesson or may select “Create a New Series” link **304** to create a new series of lessons. Herein is an advantage of the present invention. Without third-party or manual intervention, teacher **118** can create new video lessons and categorize and compartmentalize them into series or other hierarchal categories or subcategories.

The video lessons may be categorized into groups such as series or courses, for example. Each video lesson can also be subdivided into subgroups or sections based on key concepts or subtopics. Each video lesson then becomes a selectable thumbnail displayed on the teacher’s profile page.

Here, a lesson teaches subject matter for a particular topic. A series can include one or more lessons that teach the particular topic. One skilled in the art will realize that the particular nomenclature used in categorizing the lessons or subsections thereof is not critical so long as such lessons are categorized as part of a hierarchy. Thus, series, courses, parts, etc. may be used interchangeably to categorize video lessons.

Referring to FIG. **3**, after “Create a New Lesson” link **302** is selected, teacher **108** may utilize file browsing window **406** (FIG. **4**) to select or upload desired video data files (video lesson files) as discussed with reference to FIG. **4**.

FIG. **4** is a screenshot illustrating lesson builder interface **400** according to an exemplary embodiment of the present invention.

In FIG. **4**, lesson builder interface **400** comprises main display window **402** and secondary window **404** for displaying a video lesson for editing/building. Main and secondary display windows **402** and **404** are further described with reference to corresponding windows of FIG. **5**.

In FIG. **4**, specifically, file browsing window **406** displayed over secondary display window **404**, has been opened by teacher **108** to select the desired video data (lesson) file for the first lesson for editing/assembly. As noted above, teacher **108** opens file browsing window **406** by selecting “Create a New Lesson” link **302** of FIG. **3**. As shown here, file browsing window **406** indicates that two video data files, backhand1.mp4 and backhand2.mp4 are available for selection for editing/building.

Video data files are available if they have been previously uploaded to curative video server system **104** (FIG. **1**). If no video data file is available, teacher **108** can use “Upload Video” button **416** for uploading desired video data files.

Here, as noted, teacher **108** has previously uploaded two video data files: backhand1.mp4 and backhand2.mp4. Teacher **108** can either select radio button **408** corresponding to video data file “backhand1.mp4” or radio button **410** corresponding to backhand2.mp4” to open the desired video data file. As shown, teacher **108** has selected radio button **408**; thus, video data file “backhand1.mp4” is opened by thereafter selecting “Select Video” button **412**. Backhand1.mp4-**503** is thus displayed as shown in FIG. **5**.

FIG. **5** is a screenshot illustrating lesson builder interface **500** according to an exemplary embodiment of the present invention.

In FIG. **5**, specifically, the exemplary single interface, lesson builder interface **500** is shown. Here, lesson builder interface **500** includes main display area or video display area **502** for displaying a video lesson for editing/building. As shown, video display area **502** is currently displaying tennis lesson **503** (backhand1.mp4).

In one embodiment, the length and height and aspect ratio of video display area **502** can be varied consistent with the spirit and scope of the present invention. Moreover, all references to windows can be construed as being equivalent to display areas.

Lesson builder interface **500** also includes index area or lesson index display area **504** adjacent to video display area **502** for displaying an index or a list of video lessons that are associated with the corresponding video lesson playing in video display area **502**.

As shown, lesson index display area **504** includes a plurality of lesson placeholder areas, which are shown as horizontal bars distinctly separated from each other. Specifically, lesson placeholder areas are lesson “**1**” **508**, lesson “**2**” **510**, lesson “**3**” **512** and lesson “**4**” **514** and lesson “**5**” **516**. Each placeholder area may receive metadata such as the lesson number, a title identifying each lesson, etc. Typically, this title can be entered directly or can be selected using settings button **501**, discussed below.

When teacher **108** requests that a lesson be created, an empty vessel (not shown) for that lesson is created. The empty vessel is no more than a configuration file that stores all of the instructions for the created lesson (including instructions to play the video data file associated with the lesson). Contemporaneously, a corresponding placeholder area that is associated with the empty vessel is created.

Thus, each lesson placeholder area for lesson “**1**” **508**, lesson “**2**” **510**, lesson “**3**” **512** and lesson “**4**” **514** and lesson “**5**” **516** has an empty vessel associated with it that plays video data files for the corresponding lesson. If teacher **108** uses a pointing device to select lesson “**1**” **508**, the instructions contained in the empty vessel associated with placeholder area lesson “**1**” **508** are executed.

Here, the instructions might be to play a specific video data file associated with lesson **1** so that the video data file (and lesson **1**) begins to play. Thus, when backhand1.mp4 (FIG. **4**) is selected, tennis lesson **503** is associated with placeholder area lesson “**1**” **508**, selection of which executes instructions to play tennis lesson **503** in video display area **502**.

In FIG. **5**, lesson interface **500** also enables teacher **108** to directly enter lesson titles in index display area **504**. Thus, the text “Untitled lesson” can be directly replaced by entering the appropriate name for tennis lesson **503**. Thus an advantage of the present invention is that instructors and end users during playback can easily identify and start lessons from a single interface. A further description may be found in co-pending patent application Ser. No. 13/624,581, entitled Embeddable Video Playing System and Method, filed Sep. 21, 2012, which is hereby incorporated by reference as if fully set forth in the present specification.

To add a new lesson, additional empty vessels and corresponding placeholder areas can be added with “ADD NEW LESSON” button **519**. A person skilled in the art will recognize that other configurations for creating a lesson and associating video data files with the lesson are possible.

Another advantage of the present invention is that lesson builder interface **500** is a single display interface generated substantially at the same time as its components video display area **502** and lesson index display area **504**. In this manner, additional windows that add complexity and multiple steps need not be generated during the lesson creation process.

In FIG. **5**, lesson builder interface **500** also includes video control bar **517** displayed upon hover by a user input device. As shown, video control bar **517** has a plurality of control buttons including play/pause button **534**.

Video control bar **517** also includes timeline **515** and progress indicator or playhead **533**. As implied by its name,

timeline **515** is a temporal representation of video lessons, here, of tennis lesson **503**. Tennis lesson **503** is represented on the entire width of timeline **515**. As tennis lesson **503** is played, playhead **533** advances over timeline **515** until the entire video lesson is played. Another advantage of the present invention is that timeline **515** and playhead **533** operate like a player during the editing.

Another advantage is that timeline **515** has a fixed width. Thus, as described with reference to figures below, timeline **515** remains unchanged when video data files are added to the timeline or when video data files represented on the timeline are deleted.

Once video lesson “backhand1.mp4” begins to play, teacher **108** can begin various editing/building operations using various buttons located in section action **518**. As shown, such buttons include split button **530**; move buttons **532**; trim buttons **520** and **522**, all of which can be selected by teacher **108** to initiate desired operations. Settings button **501** also permits labeling of the various sections.

In use, as tennis lesson **503** plays, a typical initial operation is for teacher **108** to use split button **530** to split tennis lesson **503** into various time sections as desired. Tennis lesson **503** may be spliced up based on key concepts, subtopics, themes or different concepts taught by teacher **108**. Splitting may also be based on lesson highlights, important points, introductory material and summaries, etc.

Once teacher **108** identifies the point/time on timeline **515** to segment tennis lesson **503** based on the position of playhead **533**, she then selects split button **530**, which automatically segments tennis lesson **503** into two time sections, each time section being independently playable. Teacher **108** may in fact select any contiguous or noncontiguous time section of tennis lesson **503** that is associated with a key concept and then split the selected time section.

Herein is another advantage of the present invention. Concurrently and in real time, as a video lesson is played in the video display area, the section control menu including split button **530** is used to manipulate/edit the video lesson. In this manner, a teacher can know exactly where on the video lesson she wishes to split the video as she views the video.

Unlike conventional systems wherein thumbnails of the video lesson are split and then dragged to a timeline, the present invention manipulates/edits video lessons in real time. Teacher **108** can also use the online video interface of the present invention at any time to retrieve and segment video lessons without need for intervention by third parties such as operators of the website wherein the video lesson is published.

Moreover, in conventional systems for building online courses, once a video data file is added to a course, it can neither be edited nor can it be added to. The video data file can only be removed. Unlike such conventional systems, the present invention permits segmenting of video lessons into time sections as well as addition of new time sections to existing video data files.

FIG. 6 is a screenshot of lesson builder interface **600** showing tennis lesson **503** (FIG. 5) according to an exemplary embodiment of the present invention.

In FIG. 6, tennis lesson **503** displays the start of subtopic “Eastern Contact Point,” of time section **646**. Specifically, based on this subtopic, teacher **108** has split tennis lesson **503** into various time sections including time section **646** beginning at point C on timeline **515**.

To create this section, in one embodiment, teacher **108** initially pauses the video lesson at point C. In turn, playhead **533** stops at point C indicating that tennis lesson **503** is paused. Teacher **108** may then select split button **530** to create

time section **646**. Alternatively, teacher **108** can simply select split button **530** without pausing tennis lesson **503** when playhead **533** reaches point C, the desired split position.

Note that timeline **515** remains at a fixed width even where tennis lesson **503** has been segmented into various time sections. The representation of each time section on timeline **515** essentially remains the same.

Once split button **530** is selected, time section **646** is sectioned off on timeline **515** from the rest of the tennis lesson and becomes independently playable. Quizzes, attachments and other like objects may similarly be hung on the newly created time section. One skilled in the art will realize that split button **530** can be any means, or located anywhere so long as it enables user selection to split the video lesson at a desired point/time. Thus, for example, split button **530** may be a voice-activated input.

Other time sections are created with split button **530** as well. Thus, teacher **108** creates time section **640** as the tennis lesson plays and playhead **533** is initially at point A. Teacher **108** also selects split button **530** to create time section **642** as playhead **533** reaches point B.

As shown, both time sections **644** and **646** are created when playhead **533** reaches point/time C on timeline **515**. When selected, split button **530** divides the remainder of the video lesson into time sections **644** and **646** at point/time C. In one embodiment, each respective time section is based on a subtopic of the lesson. That is, each subtopic is related to the topic of the lesson. In an alternate embodiment, each time section is based on a theme.

In one embodiment, each time section is associated with a single video file. By selecting a particular time section, the video file associated with the time section is played. For example, when a user plays a time section, the player streams or downloads and plays the video file associated with the time section.

In FIG. 6, in addition to split button **530**, various section operation buttons include move buttons **532A** and **B**; trim buttons **520** and **522**; and settings button **501** used for labeling.

When selected by teacher **108**, move button **532A** shifts a time section leftwards, from its current location to that of the immediately preceding time section. For example, when playhead **533** is on time section **646**, selection of move button **532A** operates to move time section **646** to the current location time section **644**, which is itself shifted right to the former location of time section **646**. That is, the locations of time section **646** and time section **644** are switched.

Similarly, when selected by teacher **108**, move button **532B** shifts a time section rightwards from its current location to that of the immediately succeeding time section. For example, when playhead **533** is on time section **644**, selection of move button **532B** operates to move time section **644** rightwards to the current location of time section **646**, which itself is shifted left to the former location of time section **644**. That is, the locations of time section **646** and time section **644** are switched.

When selected by teacher **108**, trim button **520** deletes recordings including sections before the selection point (playhead **533**). For example, when playhead **533** is at point C of time section **646**, selection of trim button **520** operates to delete time sections **640**, **642** and **644** leaving time **646**.

When selected by teacher **108**, trim button **522** deletes sections after the selection point (location of playhead **533**). For example, when playhead **533** is at point B, selection of trim button **522** operates to delete time sections **644** and **646** leaving time sections **640** and **642**.

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When selected by teacher **108**, delete button **524** operates to delete the current section. For example, when playhead **533** is at point C of time section **646**, selection of delete button **524** operates to delete time section **646** leaving time sections **640**, **642** and **644**.

In this manner, contiguous and noncontiguous time sections can be moved, trimmed, deleted and organized and played in a linear fashion. The time sections may be from a single video data file or from multiple video data files all of which can be assembled into contiguous time sections, such that each time section is associated with a key concept of the lesson.

Thus, the present invention provides an intuitive online user interface configured to edit, assemble and publish video lessons. Note that all of teacher **108**'s video lessons are published to a personal website directory dedicated to teacher **108** and configured to store all of the teacher's video lessons. While examples of video lesson editing have been provided, one skilled in the art will realize that the present invention may also be utilized to build one or more video lessons from several disparate video data files as described with reference to FIG. 7.

FIG. 7 is a screenshot of lesson builder interface **700** according to an exemplary embodiment of the present invention.

In FIG. 7, lesson builder interface **700** shows pop-up **760** displayed when teacher **108** selects add button **766**. Unlike the embodiment of FIG. 6 where tennis lesson **503** is split into sections, teacher **108** can use add button **766** to build tennis lesson **503** by adding additional time sections. When add button **766** is selected, pop-up **760** having add section icon **761** is displayed.

Upon selection of add section icon **761**, file browsing window **406** (FIG. 4) is opened (not shown), enabling teacher **108** to select or upload a desired tennis video data file. The selected video data file is then added at a selected point on timeline **515**. Here, the selected tennis video data file is added at point/time E, the location of playhead **533**. Further, sections may also be added specifically before or after specific sections by selecting the "+" buttons.

Note also that addition of a new video data file does not change the width of timeline **515**. The representation of an existing video data file is simply time-scaled or compressed to fit on timeline **515** based on its duration. The representation of the new video data file is also time scaled in proportion to its duration to fit within timeline **515** along with the existing video data file.

Note that teacher **108** may also add attachments to time sections by selecting attachment icon **762** and can add exercises by selecting exercises icon **764**. In this manner, the present invention affords teachers not only the flexibility to edit their video content, but they can also build video content from disparate video content files.

FIG. 8 is a screenshot of lesson builder interface **800** according to an exemplary embodiment of the present invention.

In FIG. 8, specifically, lesson builder interface **800** shows settings dialog box **850** for entering a lesson title and related descriptions. An advantage of the present invention is that settings dialog box **850** allows teacher **108** to enter all requisite information for identifying and describing a lesson within a single interface.

As shown, settings dialog box **850**, which is opened by selecting settings button **501** includes title text box **852** and description text box **858**. Once settings dialog box **850** is opened, teacher **108** can use its title text box **852** to enter metadata such as a title for tennis lesson **503**. Here, teacher

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108 has entered "Learning the Two-Handed Backhand" in title text box **852**. Consequently, this title "Learning the Two-Handed Backhand" is displayed as the title of lesson **1** in placeholder area "1" **508** as shown.

Settings dialog box **850** also includes description text box **858** that can be used to enter a long description of the tennis lesson **503**. Here, teacher **108** has entered "The two-handed backhand uses the non-dominant hand to provide a more stable hit at contact." This is the description of the tennis lesson provided to students prior to viewing tennis lesson **503**.

Setting dialog box **850** also includes short description text box **860** for entering short lesson descriptions. Here, no short description has been entered, but it can be observed that any such description must be between 140-160 characters. Settings dialog box **850** also includes dropdown box **854** for selecting an introduction video as well as dropdown box **856** for selecting a thumbnail.

Setting dialog box **850** also includes checkbox **864** that can be checked if teacher **108** wishes to provide the lesson at no charge to users. If this box is checked, all users and learners may access the tennis lesson at no charge. If checkbox **864** is unchecked, teacher **108** is required to check checkbox **866** and then enter the lesson cost/amount in amount text box **867** for the cost of the lesson.

The amount/cost entered is then displayed along with thumbnails so users can view the cost of the lesson prior to purchase. Teachers can access and manage this process at any time by accessing curative video system **104** of the present invention. In this manner, teachers can determine and enter how much they wish to charge for each lesson and/or series of lessons and can manage such amounts on their own and at their convenience without intervention by third parties.

Lesson builder interface **800** further shows section title text box **862** for entering the title for a section. Each time section has its own title text box for entering a section title. For example, here, time section **646**, which is currently playing as indicated by the position playhead **533**, has title text box **862**, in which the title "Shoulder Turn" has been entered to reflect its title.

FIG. 9 is a screenshot of lesson builder interface **900** according to an exemplary embodiment of the present invention.

In FIG. 9, specifically, lesson builder interface **900** shows exercise popup **970** for adding exercises to a current session. Exercise popup **970** is accessible by selecting icon **972** displayed along a vertical edge of video display area **502**.

When accessed by teacher **108**, exercise popup **970** displays "section titles" **976** for all of the sections created by teacher **108**, where the title that is currently playing is grayed out. Note that such section titles are added using title text box **862** described with reference to FIG. 8.

Exercise popup **970** also displays "Add an exercise to the current section" link **974**, which upon selection, adds an exercise or quiz to the current section. Here, teacher **108** has selected "Add an exercise to the current section" link **974**, to add an exercise to "Section 4: Shoulder Turn," which is the current section, as further discussed with reference to FIG. 10. In FIG. 9, lesson interface builder **900** also shows paper clip icon **971** configured to file browsing window **1206** (FIG. 12).

FIG. 10 is a screenshot of lesson builder interface **1000** according to an exemplary embodiment of the present invention.

In FIG. 10, lesson builder interface **1000** enables teacher **108** to create an exercise for the current section. Thus, when a student such as user **102** plays the section, user **102** can answer the questions in that exercise created for the section.

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This is but another advantage of the present invention. Unlike conventional systems, the present invention allows teachers to create exercises to test a learner's knowledge of particular time sections on a section-by-section basis. Most learning occurs by testing what was previously learned to determine what is retained and what is understood.

To create an exercise, teacher **108** may use title text box **1080** to add an exercise title, employ text box **1082** to add question text for the exercise and use text box **1084** to add a hint. A hint provides a clue to an exercise answer.

Teacher **108** can also use text box **1086** to add answer text; if this answer is the correct answer choice for the exercise question, the teacher also selects corresponding checkbox **1087**. The same goes for text box **1088**. Teacher **108** can use text box **1088** to add an additional answer text; if this answer text is the correct answer choice, corresponding checkbox **1089** is selected. Teacher **108** can also use text box **1092** to add explanation text for the exercise.

If another answer choice is desired, teacher **108** uses "Add Another Answer Option" button **1094** to add another answer choice. If checkbox **1090** is checked, all answer choices are randomly presented. Those skilled in the art, in light of the present teachings, will recognize that the exercise format need not include multiple answer choices and in fact may include no answer choice at all.

FIG. **11A** is a screenshot of lesson builder interface **1100** according to an exemplary embodiment of the present invention.

In FIG. **11A**, lesson builder interface **1100** shows an exercise created for a time section of tennis lesson **503**. Here, teacher **108** has used title text box **1080** (FIG. **10**) to enter text "Shoulder Turn" **1180** since "Shoulder Turn" is the section title. Teacher **108** has also employed text box **1082** (FIG. **10**) to enter question text for the exercise. Specifically, text "What should you do with your racket as you make your shoulder turn?" **1182** has been entered as the question. This question is of course displayed to users upon conclusion of the section. If there is no associated question, the system may proceed to play the next available section.

In FIG. **11A**, teacher **108** has further used text box **1084** (FIG. **10**) to add a hint, "C-Shaped" **1184**, which is a clue to the exercise answer "Make a loop," since a loop is C-Shaped. Teacher **108** has also employed text box **1086** (FIG. **10**) to add answer text "Go straight back" **1186**; and here, since this is an incorrect answer choice, its corresponding checkbox remains unchecked.

Text box **1086** has also been used to add answer text "Make a loop" **1188**; and here, since this is a correct answer choice, its corresponding checkbox **1089** is checked. Thus, upon conclusion of playback of this section and user **102** selects this answer choice, it is affirmed as the correct answer after which tennis lesson **503** can proceed to the next section.

Since another answer choice is desired, teacher **108** uses "Add Another Answer Option" button **1094** (FIG. **10**) to add another answer choice text "split step" **1192**. This answer choice is incorrect and as such its checkbox remains unchecked. Further, checkbox **1090** (FIG. **10**) is checked; thus all answer choices are randomly presented.

FIG. **11B** is a flowchart illustrating video building method **1190** according to an exemplary embodiment of the present invention.

In FIG. **11B**, at block **1191**, an input signal by teacher **108** to create a new online video lesson is received by lesson builder **118** of curative video server system **104** (FIG. **1**). Teacher **108** might transmit the input signal using an HTTP request via a browser (not shown) running on client laptop **110**.

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As an example, teacher **108** can select "Create a New Lesson" link **302** (FIG. **3**) to create a new video lesson. The video lesson itself might have one or more lectures or lessons, each of which can be independently displayed by student viewers. The video lesson may be based on one or more video data files (e.g., mp4 files, etc) uploaded by teacher **108**.

At block **1192**, responsive to the user-input signal, a file upload window (e.g., file browsing window **406** of FIG. **4**) configured to upload a plurality of video data files is displayed. Teacher **108** browses a local file storage and selects video data files for uploading from client laptop **110** to curative video server system **104**. Each video data file consists of lesson frames keyed to concepts of a lecture. This allows lesson frames associated with specific concepts to be identified and segmented according to precepts of the present invention.

At block **1193**, video and index display areas such as video display area **502** (FIG. **5**) and lesson index display area **504** (FIG. **5**) are generated adjacent to each other. Video display area **502** displays video lessons for editing/building and lesson index display area **504** includes a plurality of lesson placeholders areas lesson "1" **508**, lesson "2" **510**, lesson "3" **512**, lesson "4" **514**, lesson "5" **516** all of FIG. **5**.

At block **1194**, a user input signal from teacher **108** is received to select a first video data file from multiple video files previously uploaded. As an example, in FIG. **4**, specifically, file browsing window **406**, displayed over secondary display window **404**, has been opened by teacher **108** to select the desired video data file for the first lesson. Here, file browsing window **406** indicates that two video data files, backhand1.mp4 and backhand2.mp4, are available for selection, of which teacher **108** has selected backhand1.mp4.

At block **1195**, responsive to the user-selection signal, the first video data file is associated with an empty vessel (not shown) for lesson one so that the first video lesson begins to play in the video display area **502**. Further, when the corresponding placeholder area lesson "1" **508** is selected in lesson index display area **504**, lesson one also begins to play.

At block **1196**, the first video data file might then be segmented into two or more time sections, each time section keyed to a concept of the lesson. Alternatively or in addition to segmentation, teacher **108** might choose to select a second video data file from the uploaded video data files to add the second video file to the first video file to create an additional time segment for the first video lesson. Although not referenced, one skilled in the art will realize that other comparable methods for video building consistent with the spirit and scope of the present invention may be utilized.

FIG. **12** is a screenshot of lesson builder interface **1200** according to an exemplary embodiment of the present invention.

In FIG. **12**, lesson builder interface **1200** shows file browsing window **1206** for embedding attachments such as files or external Internet web links into video lessons. Such attachments might be video files, images and the like. File browsing window is opened by selecting paperclip icon **971** (FIG. **9**) or

This embedding functionality that can be accessed at any time during video-play is another benefit of the present invention. Unlike conventional video lessons that display documents that are no longer viewable after the video frame has played, user **102** can view attachments or links at any time during video lesson play.

In FIG. **12**, file browsing window **1206** is open, and checkbox **1215** in this window is checked to select an attachment griptypes.jpg that demonstrates the various tennis grip types in a single image. After checkbox **1215** is selected, "Add attachment(s)" button **1208** is selected to embed grip-

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types.jpg into the requisite section of the tennis lesson. Teacher **108** can also select "Upload" button **1216** to upload photos; "Upload file" button **1214** to upload files; "Add Link" button **1212** to add a URL; and "Add" button **1210** to add an Amazon.com link.

Lesson builder interface **1200** also includes preview button **1202** for previewing lessons prior to publication and publish button **1204** for publishing lessons. Herein is another advantage of the present invention. When all editing, assembling, and previewing of tennis lesson **503** has been completed, teacher **108** can select publish button **1204** to publish tennis lesson **503** on the web. Unlike conventional systems, all of teacher **108**'s video lessons are published to a website dedicated only to teacher **108**. A profile page (not shown) includes this website URL as well as a teacher bio, all video lessons/thumbnails offered by teacher **108** and other relevant information for viewing by online users. Thus, teacher **108** can advertise this website and consider it a personal one.

FIG. **13** is a screenshot of lesson builder interface **1300** according to an exemplary embodiment of the present invention.

In FIG. **13**, lesson builder interface **1300** illustrates a preview of tennis lesson **503** prior to publication. Teacher **108** previews a lesson by selecting preview button **1202** of FIG. **12**. Lesson builder interface **1300** is then displayed within video display area **502**. Here, as shown, tennis lesson titled "Learning the Two-Handed Backhand" is displayed.

Teacher **108** may then use play button **1320** located proximately midpoint of video display area **502** to play the video lesson. A lesson number "1" corresponding to tennis lesson **503** is also displayed within lesson index display area **504**. Here, the teacher **108** can then use play button **1320** to play the lesson to determine whether it is ready for publication. Alternatively, teacher **108** may use each of section links **1326** to preview each corresponding section of tennis lesson **503**.

Teacher **108** may also select paperclip icon **1321** to preview attachments or select exercise icon **1322** to preview exercises. Projects icon **1324** is used to preview project edits. Teacher profile **1328**, table of content **1330** and lesson description **1332** may also be viewed.

FIG. **14A** shows a typical computer **10** such as would be operated by a user on the Internet. Computer **10** includes a cabinet **12** housing familiar computer components such as a processor, memory, disk drive, Compact Digital Read-Only Memory (CDROM), etc. (not shown). User input devices include keyboard **16** and mouse **18**. Output devices include display **20** having a display screen **22**. Naturally, many other configurations of a computer system are possible. Some computer systems may have other components in addition to those shown in FIG. **14A** while others will have fewer components. For example, server computers need not have attached input and output devices since they may only be accessed from time to time by other computers over a network. Human interaction with such a server computer can be at another computer that is equipped with input and output devices. Input and output devices exist in many variations from those shown in FIG. **14A**. Displays can be liquid crystal displays (LCD), computer monitors, plasma, etc. Input devices can include a trackball, digitizing tablet, microphone, etc. In general, use of the term "input device" is intended to include all possible types of devices and ways to input information into a computer system or onto a network. Likewise the term "output device" includes all possible types of devices and ways to output information from a computer system to a human or to another machine.

The computer itself can be of varying types including laptop, notebook, palm-top, pentop, etc. The computer may

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not resemble the computer of FIG. **14A** as in the case where a processor is embedded into another device or appliance such as an automobile or a cellular telephone. Because of the ever-changing nature of computers and networks, the description of hardware in this specification is intended only by way of example for the purpose of illustrating the preferred embodiment. Any distributed networked system capable of executing programmed instructions is suitable for use with the present invention.

FIG. **14B** shows subsystems of the computer of FIG. **14A**. In FIG. **14B**, subsystems within box **40** are internal to, for example, the cabinet **12** of FIG. **14A**. Bus **42** is used to transfer information in the form of digital data between processor **44**, memory **46**, disk drive **48**, CDROM drive **50**, serial port **52**, parallel port **54**, network card **56** and graphics card **58**. Many other subsystems may be included in an arbitrary computer system, and some of the subsystems shown in FIG. **14B** may be omitted. External devices can connect to the computer system's bus (or another bus or line, not shown) to exchange information with the subsystems in box **40**. For example, devices such as keyboard **60** can communicate with processor **44** via dedicated ports and drivers (shown symbolically as a direct connection to bus **42**). Mouse **62** is connected to serial port **52**. Devices such as printer **64** can connect through parallel port **54**. Network card **56** can connect the computer system to a network. Display **68** is updated via graphics card **58**. Again, many configurations of subsystems and external devices are possible.

While the above is a complete description of exemplary specific embodiments of the invention, additional embodiments are also possible. Thus, the above description should not be taken as limiting the scope of the invention, which is defined by the appended claims along with their full scope of equivalents.

We claim:

1. An online, computer implemented-method that uses one or more video data files for building an online video lesson having one or more lessons, the method operable upon receiving a request from a remote user/instructor to create the online video lesson, the computer-implemented method comprising:

receiving a first one or more video data files from said remote user, each video data file configured to teach key concepts for the online video lesson;

generating a single display interface having at least a video display area and a lesson list display area, the video display area configured to display the first video data file and other video data files associated with one or more lessons, the lesson list display area configured to display an index of all lessons available for playing in the video display area, said index of all lessons representing segmented time sections of the one or more video data files;

generating a timeline with a playhead in the video display area, wherein the timeline represents the first video data file in a temporal order, said playhead progressing along the timeline to indicate a position of the first video data file in time as the first video data file is played, wherein the timeline includes segmented time sections of the one or more video data files;

using the first video data file to create a first lesson configured to play in the video display area, wherein said first lesson can be initiated by selecting an identifier for the first lesson from the index of lessons in the lesson list display area; and

editing, in real time as the first lesson is played, contiguous and noncontiguous elements of the first video data file into a plurality of segmented time sections, wherein each

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segmented time section is associated with a key concept of the first lesson, wherein the first lesson including the key concepts of the plurality of segmented time sections are configured to be played linearly in the video display area, wherein each segmented time section is independently playable.

2. The method of claim 1 wherein said editing occurs at the position of the playhead as the first lesson is played.

3. The method of claim 1 wherein said editing is initiated by an end user via a section control interface displayed on the video display area,

wherein the section control interface includes at least one of a split control button configured to segment the first video data file or a time section into two contiguous time sections, at least an add control button configured to utilize a second video data file to add an additional time section to the first lesson; at least a trim control button configured to discard video data either before or after the playhead; and at least a move control button configured to shift the current time section either backwards or forwards on the timeline.

4. The method of claim 1 wherein said editing is by receiving a title of a time section via a text box as the corresponding time section is being played in the video display area.

5. The method of claim 1 wherein said editing is by receiving the identifier for the first lesson via a text box in the lesson list display area as the first lesson is played in the video display area.

6. The method of claim 1 wherein said timeline has a fixed width.

7. The method of claim 6 wherein the first video data file is represented over the entirety of the fixed width.

8. The method of claim 6 wherein said fixed width remains unchanged when a second video data file is added to the first lesson and both the first video data file and second video data file are represented on said timeline.

9. The method of claim 8 wherein the first and second video data files are represented on the entirety of said fixed timeline in proportion to the duration of each video data file.

10. The method of claim 7 wherein when a time section of the first video data file is deleted, the remaining one or more time sections are lengthened to occupy the entirety of the fixed width time line.

11. The method of claim 1 further comprising embedding a quiz and corresponding answer choices for the quiz in the first lesson.

12. The method of claim 1 further comprising embedding an attachment file or link that is referenced in the first lesson; and

generating a secondary display area separate from the video display area, said secondary display area being configured to view the attachment file or link during playback of the first lesson.

13. The method of claim 9 wherein the first video data file is used to create a first lesson by: generating an empty vessel configured to retain instructions to play the first video data file; and associating the first video data file with the empty vessel whereby the first video data file automatically begins to play in the video display area.

14. An online, computer implemented-method that uses one or more video display data files for building an online video lesson having one or more lessons, the method comprising:

receiving a first one or more video data files from said remote user, each video data file configured to teach a

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plurality of key concepts for the online video lesson, said first one or more video data files being configured to be editable;

generating a single display interface configured to display the first one or more video data files;

generating a timeline with a playhead in the single display interface, wherein the timeline includes segmented time sections of the one or more video data files, wherein the timeline represents the first video data file in a temporal order, said playhead progressing along the timeline to indicate a position of the first video data file in time as the first video data file is played in the single display interface;

using the first video data file to create a first lesson configured to play in the single display interface; and

editing, in real time as the first lesson is played in the single display interface, contiguous and noncontiguous elements of the first video data file into a plurality of segmented time sections, wherein each segmented time section is associated with a key concept of the first lesson, wherein the first lesson including said key concepts is configured to be played linearly in the single display interface and

wherein each segmented time section is independently playable.

15. The method of claim 14 wherein the first video data file is used to create a first lesson by: generating an empty vessel configured to retain instructions to play the first video data file; and associating the first video data file with the empty vessel whereby the first video data file automatically begins to play in the single display interface.

16. The method of claim 14 wherein said editing occurs at the position of the playhead as the first lesson is played.

17. The method of claim 14 wherein said editing is initiated by an end user via a section control interface displayed on the single display interface;

wherein the section control interface includes at least one of a split control button configured to segment the first video data file or a time section into two contiguous time sections, at least an add control button configured to utilize a second video data file to add an additional time section to the first lesson; at least a trim control button configured to discard video data either before or after the playhead; and at least a move control button configured to shift the current time section either backwards or forwards on the timeline.

18. The method of claim 14 wherein said editing is by receiving a title of a time section via a text box as the corresponding time section is being played in the single display interface.

19. The method of claim 14 wherein said editing is by receiving a title for the first lesson via a text box displayed in the single display interface as the first lesson is played.

20. The method of claim 14 wherein said timeline has a fixed width.

21. The method of claim 20 wherein the first video data file is represented over the fixed width.

22. The method of claim 20 wherein said fixed width remains unchanged when a second video data file is added to the first lesson and both the first video data file and second video data file are represented on said timeline.

23. The method of claim 22 wherein the first and second video data files are represented on the entirety of said fixed timeline in proportion to the duration of each video data file.

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24. The method of claim 20 wherein when a time section of the first video data file is deleted, the remaining one or more time sections are lengthened to occupy the entirety of the fixed width time line.

25. The method of claim 14 further comprising
embedding a quiz and corresponding answer choices for the quiz in the first lesson.

26. The method of claim 14 further comprising
embedding an attachment file or link that is referenced in the first lesson; and

generating a secondary display area separate from the video display area, said secondary display area being configured to view the attachment file or link during playback of the first lesson.

27. A computer program product including a non-transitory computer readable storage medium and including computer executable code for creating a video builder, the code when executed by a processor adapted to perform the steps comprising:

receiving a first one or more video data files from said remote user, each video data file configured to teach a plurality of key concepts for the online video lesson, said first one or more video data files being configured to be editable;

generating a single display interface configured to display the first one or more video data files;

generating a timeline with a playhead in the single display interface, wherein the timeline includes segmented time sections of the one or more video data files, wherein the timeline represents the first video data file in a temporal order, said playhead progressing along the timeline to indicate a position of the first video data file in time as the first video data file is played in the single display interface;

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using the first video data file to create a first lesson configured to play in the single display interface; and editing, in real time as the first lesson is played in the single display interface, contiguous and noncontiguous elements of the first video data file into a plurality of segmented time sections, wherein each segmented time section is associated with a key concept of the first lesson, wherein the first lesson including the key concepts of the plurality of time sections are configured to be played linearly in the single display interface and wherein each segmented time section is independently playable.

28. The computer program of claim 27 wherein the first video data file is used to create a first lesson by: generating an empty vessel configured to retain instructions to play the first video data file; and associating the first video data file with the empty vessel whereby the first video data file automatically begins to play in the single display interface.

29. The computer program of claim 27 wherein said editing occurs at the position of the playhead as the first lesson is played.

30. The computer program of claim 27 wherein said editing is initiated by an end user via a section control interface displayed on the single display interface,

wherein the section control interface includes at least one of a split control button configured to segment the first video data file or a time section into two contiguous time sections, at least an add control button configured to utilize a second video data file to add an additional time section to the first lesson; at least a trim control button configured to discard video data either before or after the playhead; and at least a move control button configured to relocate a current time section to another position on the timeline before or after an adjacent time section.

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